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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/650,047	08/28/2003	Masanori Watanabe	204552029600 7231		
75	90 02/02/2006		EXAMINER		
Barry E. Bretschneider			FLORES RUIZ, DELMA R		
Morrison & Foerster LLP Suite 300			ART UNIT	PAPER NUMBER	
1650 Tysons Boulevard McLean, VA 22102			2828		
			DATE MAILED: 02/02/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.



Supplemental

Application No.	Applicant(s)	
10/650,047	WATANABE, MASANORI	
Examiner	Art Unit	
Delma R. Flores Ruiz	2828	

	Notice of Allowability	Examiner	Art Unit				
		Delma R. Flores Ruiz	2828				
her NO	The MAILING DATE of this communication appe claims being allowable, PROSECUTION ON THE MERITS IS ewith (or previously mailed), a Notice of Allowance (PTOL-85) TICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI he Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not includ will be mailed in due	ed course. THIS			
1.	\boxtimes This communication is responsive to <u>08/28/2003</u> .						
2.	\boxtimes The allowed claim(s) is/are <u>1-16</u> .						
3.	\boxtimes The drawings filed on <u>28 August 2003-</u> are accepted by the	e Examiner.					
A	Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: pplicant has THREE MONTHS FROM THE "MAILING DATE" of the priority documents have are contact the priority documents have provided below. Failure to timely comply will result in ABANDONM HIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	been received. been received in Application No cuments have been received in this i	national stage applica				
	A SUBSTITUTE OATH OR DECLARATION must be submi			IOTICE OF			
	CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
1. [2 2. [3. [2	achment(s) Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 08/08/2005 Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other Mii	(PTO-413), renent/Comment ent of Reasons for Allo	·			
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U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

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DETAILED ACTION

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 08/28/2003 has considered by the examiner Flores-Ruiz.

Drawings

The examiner Flores-Ruiz has considered the drawings submitted on 08/28/2003.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Barry Bretschneider on September 14, 2005.

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The application has been amended as follows:

In claim 1 line 6, insert, --($0 \le p \le 1$, $0 \le q \le 1$) –, between $(Al_pGa_{1-p})_qIn_{1-q}$ and intermediate and delete " $(0 \le p \le x, 0 \le q \le 1)$ ".

In claim 8 line 10, insert, --($0 \le p \le 1$, $0 \le q \le 1$) –, between $(Al_pGa_{1-p})_q In_{1-q}$ and intermediate and delete "($0 \le p \le x$, $0 \le q \le 1$)".

Allowable Subject Matter

Claims 1 - 16 are allowed.

The following is an examiner's statement of reasons for allowance: Claim 1 recites a semiconductor laser structure including the specific structure limitation of cladding layer, active layer, intermediate band gap layer, substrate; an oxide layer formed on a surface of the p-type $(Al_pGa_{1-p})_q \ln_q P$ intermediate band gap layer in the current non-injection region; a p-type $Al_uGa_{1-u}As$ $(0 \le u \le 1)$ cap layer formed on the p-type $(Al_pGa_{1-p})_q \ln_q P$ intermediate band gap layer in the current injection region; and a p-type $Al_vGa_{1-v}As$ $(0 \le v \le 1)$ contact layer formed on the oxide layer and the p-type $Al_uGa_{1-u}As$ cap layer, which is neither anticipated or disclosed nor suggested in any

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piece of available prior art, which is neither anticipated nor obvious over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delma R. Flores Ruiz whose telephone number is (571) 272-1940. The examiner can normally be reached on M - F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Min Sun Harvey can be reached on (571) -272-1835. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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Delma R. Flores Ruiz

Examiner Art Unit 2828

DRFR/MH September 14, 2005 Min Sun Harvey Supervisor Patent Examiner Art Unit 2828